GOVERNMENT OF MADRAS. Scott. II-28—55.000—27-10-55

PW (1953) Department.

~~Endorsement~~
~~D.O.~~
Memorandum
~~Lodged~~

No. 72975 F/53-5

Dated 23-6- 1954.

Close

FURTHER PAPERS.

Department.	Number.	Series.	Date.

rom
A. Mudie, Esq.,
State Port Officer,
P.B.No.13,
Madras 1.

To
The Secretary to Government,
Public Works Department,
Madras.

SECRETARY TO GOVT.
11 AUG. 53
PUBLIC WORKS DEPT.
72975

No.428-SD/53-1, dated 8-8-1953.

Sir,

Sub:- Ports - Mangalore - Improvements - Model experiments at Poona and collection of data therefor at Mangalore.

I forward herewith for the information of Government, copies of letters, No.1933-M, dated 29-7-53 (together with copies of enclosures) and No.179/4663 dated 3-8-53 received from the Executive Engineer, P.W.D., South Kanara Division and the Director, Central Water & Power Research Station, Poona respectively. While the Executive Engineer, South Kanara Division reports that the staff engaged on the work of collection of data at Mangalore will be required up to 31-3-54, the Director Central Water & Power Research Station, Poona states that it is desirable to maintain it at least for one more year. At present there is no indication as to what the whole job is likely to cost the Minor Ports Fund ultimately. I have however asked both the above officers for particulars of expenditure incurred by them so far and the probable amount required upto 31-3-54 and the information will be furnished to Government on receipt.

Yours faithfully,

10/8

State Port Officer.

Encls.
Copies of two letters with enclosures.

P.8.

PW(F)

Submitted for perusal.

2. Further report referred to at A above may be awaited by 25.9.53

Through R.O. 17.8.53 Ka 17.8.53 Pd 17.8.53

What are the proposals re: transfer of staff etc?

18/8/53

Submitted.

- The staff for the work at Mangalore has been sanctioned upto 31-10-53 - Vide p17 of G.O 2360 of 1.6.53 at (R). The question of further sanction if necessary will be dealt with separately on receipt of S.P.O's proposals

Ka 19.8.53 Pd 19.8.53

20/8/53

From the Executive Engineer, South Kanara Dn., Mangalore 3,
To the State Port Officer, Madras,
No.1933 M, dated 29-7-53.

Sub:- Ports - Mangalore - Improvements - Model Experiments - Collection of data - Special staff - Continuance or otherwise beyond 31-10-53.
Ref:- Your letter No.253-SD/53-18, dated 24-7-1953.

The entire staff will be required till 31-3-54. Please see Sub Dl. Officer, Port's letter sent separately.

From the Assistant Engineer, P.W.D., Port Works Sub Divn., Mangalore,
To the Executive Engineer, P.W.D., S.Kanara Dn., Mangalore,
No.610 E, dated 30-7-53.

Sub:- Ports - Mangalore Port Survey experiments - Special Staff - Review of condition for continuance after discussion with Director Central Water and Power Research Station, Poona.
Ref:- This office No.517 E, dt., 25-6-53 and discussion with Director, Central Water & Power Research Station during his camp at Mangalore communicated in Dl. No.U.O.d.20-7-53.

I have submitted separately a note on the discussions with the Director, Central Power & Water Research Station, Poona, Sri M. Venkatraman, Executive Engineer (on leave) was also present by request and the staff requirement position was reviewed by joint discussions of the Director with the Port Officer and P.W.D. representatives on 21-7-53.

The Director, Central Water & Power Research Station, Poona is particular about completing the following investigation with the staff for field work, preparation of Data and submission of reports for :

(1) Automatic tide gauge maintenance and submission of charts and review of the position of tide house in consultation with Director, Geodetic Survey, Near the Marine Yard in view of the difficulty of access to the tide house in Monsoon season.

(2) Float observations to map, the line of flow from Sultan's Battery to gut, Railway bridge to gut and also at gut in fair and monsoon seasons.

(3) The investigation about shoaling after the monsoon and scour during the monsoon period the coast line north of the someswar rock by soundings taken just after the monsoon and about March 1954.

(4) The wave gauge is to be installed with more substantial anchorage and stays for observation of height of wave at least next year from March to August 1954.

(5) To collect data about direction of wave as furnished by steamers passing Mangalore coast in the monsoon season.

(6) To arrange for serial photograph in fair weather in February or March 1954.

(7) To depute a Junior Engineer to work at Research Station Poona for liaison work in connection with the setting and testing of the model.

In connection with the above work it was considered necessary that the present staff should be continued till 31-3-1954 and position reviewed again in January 1954 for retrenchment of staff if any and hence I request that immediate action be taken in Division for continuance of the existing staff till 31-3-54 by addressing to

4.

to Chief Engineer in continuation of Chief Engineer's letter No. 1880 E2/51-36, dt. 9-6-53 communicated to me in Dl. No.376 P, dt. 29-7-53.

From the Asst. Engineer, P.W.D., Port Works Sub Dn., Mangalore,
To the Executive Engineer, P.W.D., S. Kanara Dn., Mangalore,
No. dated.

Sub:- Mangalore Port - Model experiment - Collection of Data - Notes on discussion with the Director, Central Water and Power Research Station, Poona during his camp at Mangalore from 20-7-53 to 23-7-53.

Points of Discussion.

1. Traverse survey of Netravathi and Gurpur rivers upto Model limit: The completed traverse survey plan of Netravathi and Gurpur rivers up to model limits required by the Director as per his letter No.179/2090 dated 13-4-53 was shown to him along with the taluk plan enlarged to the same scale. After discussion the Director has generally agreed with the correctness of the new plan.

2. Aerial Photograph: The Director wanted the Executive Engineer to address Ministry of transport again to have the aerial photograph taken during the fair weather season at any time between January to March 1954. The aeiral photograph could not be taken during the last fair weather seaon as the air craft was available for photography only in May 1953 end when there were low clouds.

3. Wave heights and periods: As the wave gauge erected in February 1953 has fallen down during monsoon the Director wanted a new gauge post to be fixed with heavier anchorage and continue the observations.

4. Tide house and automatic tide gauge: The tide house was inspected by the Director on 21-7-53. The gang way (approach foot bridge) was damaged by the recent heavy floods in the Netravathi river. But nothing has happened to the tide house proper, due to the pretective work carried out before the floods. The Director is of opinion that the location of the tide house can be shifted to the Marine yard and this is to be settled in consultation with the Director Geodetic and Training Circle, Dehra Dun. It may also be mentioned here that the present site of the tide house was selected by the Director in consultation with the Port Officer, Mangalore during his visit to Mangalore in 1951.

5. Discharge observation in Netravathi and Gurpur river.

The computed discharge in Netravathi river at Panemangalore bridge for the high flood of 40.009 (above L.W.O.S.T) on 7-7-53 is 233000 cusecs while in the report of Wolfe Barry Lyster and partners, the maximum discharge of Netravathi river is stated to be 12,000 cusecs (vide letter No.179/2089 dt. 13-4-53 of Director). It may be mentioned here that the Discharge observed for water level of 29.9 which is the maximum for 1952 and 2/3 observed H.F.L. for 1953 tally each others. Even by approximate calculation adopting a velocity of 10 ft. per sec. the discharge for 40.00 water comes to 23000 cusecs. But the only item which is subject to controversy is that the current meter adopted for the purpose is rated only upto a velocity of 5 feet per sec. and the discharge for velocities beyond 5 ft. per sec. was calculated by the formula 2.25 N. The Director also stated that it might be possible for him to rate the current meter for velocities above 5 ft. per sec. at the Research Station, Poona.

6. Float Observation. The float observation are to be taken both during monsoon and fair weather seasons.

7. Levels of sea coast at Someswar. Two more set of cross section of the sea coast at somewhwar rock is to be taken after south west monsoon and again during faith weather season.

8. Establishment. The Director is of opinion that the following survey staff engaged in the survey work for collection of data should be retained with a reduced No. of subordinates beyond 31-10-53 to collect any further data that may be found required then and there while the experiment on the model is progressing. He also wanted one of the Junior Engineers who was on the job for a long time who is conversant with the field work already done should be deputed to the Research Station as soon as the experiment is started. He also wants the Junior Engineer to stay there till the experiment is completed. He wanted the Assistant Engineer, Port Works Sub Division to go over to Poona in August end or early September to certify the model. However these may be got confirmed by him.

From the Director, Central Water & Power Research Station, Poona,
To the State Port Officer, Madras,
No.179/4663, dated 3-8-53.

During my recent inspection of the Mangalore Port, it was noticed that the automatic tidal gauge, though well sheltered during dry weather season, is not safe during the freshet season especially when the Netravati and Gurpur rivers are in spate. It was observed that scour had taken place round the platform for the gauge and heavy stones had to be dumped to protect the platform. Some of the piles of the approach bridge were seen to be actually hanging. In view of the unsafe position of this gauge during the freshets and heavy annual maintenance cost it is recommended that this gauge may be shifted to another position near the Ice Factory, opposite to the gut where observations used to be taken prior to installation of the automatic gauge. Moreover, the data has shown that there is insignificant difference between the tides, observed at these places. The Ice Factory position is well sheltered during the freshet as well as dry weather season by the shoal in front of it. The necessary shifting may be done after getting the concurrence of the Director General, Geodetic Survey, Dehradun.

As regards staff, it is desirable to maintain it at least for one more year when the model experiments are expected to make a sufficient headway. It is my experience that it becomes sometimes necessary to gather during the progress of experiments some more information and data than already asked for. It also suggested that one of the junior engineers, who is conversant with day to day observations on the site, may be sent to the Station as a liaison Officer. His pay etc., may be met by you, as no provision exists in the estimate. Such a close collaboration is very useful in getting to the proving stage as early as possible.

This practice is invariably followed by the Station while handling some of the important investigations and in my considered opinion it pays in the long run.

(True copy)

State Port Officer.

80044

Extract from letter No.4102 GL/52-2 dated 1--9--1953 from the State Port Officer, Madras to the Secretary to Government, Public Works Department, Madras.

Sub: Establishment - Public Works Department - Temporary - Survey work connected with port of Mangalore - Special staff - Expenditure accounting of.

Ref: Govt. Lemo.No.46556 R/52-7 P.W. dt. 22-7-1953

ADDL. ASST. SECRETARY TO GOVERNMENT
5-SEP1953
PUBLIC WORKS DEPARTMENT

XXX xxx XXXXX

3. In this connection, I solicit a kind reference to my letter to Government No.428 SD/53-1 dated 8-8-1953 on the subject of improvements to Mangalore Port. I have asked for particulars of expenditure incurred so far and the probable amount required upto 31-3-54 on the works and the cost of establishment from the Executive Engineer, South Kanara Division and the Director, Central Water Power Research Station, Poona. I have also asked what will be the cost of the proposed extension of utilisation of establishment as now requested by Director C.W.P.R. Station, Poona, and cost of shifting of tide guage and cost of aerial photographs. As soon as these particulars are received, I shall inform Government of the position.

(True extract).

To 'F' Section.

Superintendent 5.9.53

10
5553

PW & F)

Subd. for perusal.
Further report referred to at
X above may be awaited by 26.10.53

Kg 11.9.53

13.9.53

4553

PW(FI)

29/31.10.53

Memo no 72975 FI 53-1 dt 30.10.53

Sub: Pork Mangalore Improvements:
Model experiments at Poona and
collection of data thereof at Mangalore

Ref: From the SPO No 428-SD/53-1 dt 8.8.53
DO No 41029/52-2 dt 19.53
(Para 3)

The S.P.O is requested to
state at what stage the investigation stands
now; and

2/ The SPO

29/X/53

29.10.53

30.10.53

From M. Venkataraman, B.A., M.E., Executive Engineer, S. Kanara, (11)
Mangalore, P.B.No. 5, Mangalore-3.
To the State Port Officer, Madras.
No. 3134 M., dated 25-11-1953.

Sub: Ports - Mangalore - Improvements - Model experiment at Poona - Collection of data thereof at Mangalore.
Ref: Your No. 428 SD/53-4, dated 11-11-1953.

The present stage of progress in the investigation for collection of data is furnished below:

I. Works completed and data already furnished (collected?) or being furnished to the Director, (Central) Water & Power Research Station, Poona.

(1) Cross section of both the rivers, Netravati and Gurpur upto model limit have been completed and the plans were sent to the Director. The Director in his No. 179/6380 of 1953 dated 15-10-1953 wanted the position of cross sections with their Zeros marked in the traverse survey plan and this is being attended to now.

(2) Gage readings from November 1951 to October 1953 of the several stations in both the rivers have been sent to the Director. This observation was discontinued from 31-10-53.A.N. under instructions from the Director.

(3) Discharge and silt observation at Gurpur bridge in Gurpur river and Panemangalore bridge in Netravati river have been taken and data furnished to the Director.

(4) Bed samples from stipulated places in both the rivers have been collected and sent to the Director.

(5) Discharge observations at Gut have been taken and data already sent to the Director.

(6) Direction of surface current have been observed with floats in the back waters and at Gut both during 1952 and 1953 both for monsoon and fair weather for all tidal condition. The data for 1952 has been sent to Director and that for 1953 is under scrutiny in my office.

(7) More points in both the rivers for dry season and fre season have been ascertained. The data for dry season has been sent to the Director and that for fres season is under scrutiny in my office.

(8) Automatic tide gauge records are being sent to the Director every month.

(9) Short cross sections of the two sand spits have been taken and sent to the Director.

(10) Data regardings heights and period of wages, in the sea observed upto end of 5/53 have been sent to the Director. Further observation have to be taken after fixing a new gauge post since the old one is lost during monsoon.

(11) Soundings in Gurpur channel and Juppoo channel in the two rivers before and after dredging as per Brestows proposal have been taken and is being sent to the Director.

(12) Aerial photographs of the sea portion was taken during May 1953, but a comprehensive photograph as required by the Director could not be taken due to bad weather. This is to be taken during March to May 1954 - Vide letter No. 179/6404 dated 16-10-1953 of the Director.

P.T.O.

12

72975/53

II. Data yet to be sent to the Director.

(1) Levels of sea coast at Someswar: The levels of the sea coast before monsoon have been taken and plotted. The levels for post monsoon condition are being taken and will be sent to the Director before end of December 1953.

DEPUTY ASST. SECRETARY TO GOVERNMENT PUBLIC WORKS DEPARTMENT 17 DEC 1953

(2) Some more float observation during fair weather is being taken for all tidal conditions.

(4) Silt observation at Gut have been taken recently and will be sent to the Director after drying and weighing them.

(5) Soundings at Bar and the Gut as required by the Director and his letter No. 179/6200 dated 9-10-53 is being taken and the data will be ready by the first week of December.

(6) It is proposed by the Director, Central Water & Power Research Station, Poona in his letter No. 179/4663, dated 3-8-53 to shift the tide house to the Marine yard. This has been done before next monsoon after getting necessary specification from the Director Geodetic and Training Circle, Dehra Dun.

General: It is proposed to depute one Junior Engineer who is conversent with the investigation work done at Mangalore, to the Central Water and Power Station, Poona, to act as a laiden officer and action has already been taken to obtain sanction from Government The deputation of the Junior Engineer is required as per letter No. 179/4663, dated 3-8-53 of the Director.

No. 428 JD/53-5.

Copy forwarded to the Secretary to Government, Public Works Department, Madras with reference to Government Memo No.72975-F/53-1, P.W., dated 30--10--1953.

Yours faithfully,

MADRAS,
12-12-1953.

STATE PORT OFFICER.

PWD (F1)

Pgs 11-12 above

Filed with permit
Further report may be awaited till 20-1-54.

19/12/53 21.12.53

19.12.53

12

72975/53

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(1) Levels of sea coast at Someswar: The levels of the sea coast before monsoon have been taken and plotted. The levels for post monsoon condition are being taken and will be sent to the Director before end of December 1953.

DEPUTY ASST. SECRETARY TO GOVERNMENT PUBLIC WORKS DEPARTMENT 17 DEC 1953 RECEIVED

(2) Some more float observation during fair weather is being taken for all tidal conditions.

(4) Silt observation at Gut have been taken fortnightly and will be sent to the Director after drying and weighing them.

(5) Soundings at Bar and the Gut as required by the Director and his letter No. 179/6200 dated 9-10-53 is being taken and the data will be ready by the first week of December.

(6) It is proposed by the Director, Central Water & Power Research Station, Poona in his letter No. 179/4665, dated 3-8-53 to shift the tide house to the Marine yard. This has been done before next monsoon after getting necessary specification from the Director Geodetic and Training Circle, Dehra Dun.

General: It is proposed to depute one Junior Engineer who is conversent with the investigation work done at Mangulore, to the Central water and Power Station, Poona, to act as a laiden officer and action has already been taken to obtain sanction from Government The deputation of the Junior Engineer is required as per letter No. 179/4663, dated 3-8-53 of the Director.

No. 428 SD/53-5.

Copy forwarded to the Secretary to Government, Public Works Department, Madras with reference to Government Memo No.72975-F/53-1, P.W., dated 30--10--1953.

Yours faithfully,

MADRAS,
12-12-1953.

STATE PORT OFFICER.

PWD (F)

Pms 11-12 above

Filed after perusal
Further report may be awaited till 20-1-54.

19/12/53 21.12.53

19.12.53

12

72975/53

II. Data yet to be sent to the Director.

(1) Levels of sea coast at Someswar: The levels of the sea coast before monsoon have been taken and plotted. The levels for port monsoon condition are being taken and will be sent to the Director before end of December 1953.

DEPUTY ASST. SECRETARY TO GOVERNMENT PUBLIC WORKS DEPARTMENT 17 DEC 1953

(2) Some more float observation during fair weather is being taken for all tidal conditions.

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(6) It is proposed by the Director, Central Water & Power Research Station, Poona in his letter No. 179/4663, dated 3-8-53 to shift the tide house to the Marine yard. This has been done before next monsoon after getting necessary specification from the Director Geodetic and Training Circle, Dehra Dun.

General: It is proposed to depute one Junior Engineer who is conversent with the investigation work done at Mangalore, to the Central Water and Power Station, Poona, to act as a laiden officer and action has already been taken to obtain sanction from Government The deputation of the Junior Engineer is required as per letter No. 179/4663, dated 3-8-53 of the Director.

No. 428 SD/53-5.

Copy forwarded to the Secretary to Government, Public Works Department, Madras with reference to Government Memo No.72975-F/53-1, P.W., dated 30--10--1953.

Yours faithfully,

MADRAS,
12-12-1953.

STATE PORT OFFICER.

PWD (F1)

Pms 11-12 above

Filed upto perusal
Further report may be awaited till 20-1-54.

19/12/53 21.12.53

19.12.53

272

12975/53 13

(Abstract)

ESTABLISHMENT - Public Works Department - Coimbatore Circle - South Kanara Division - Mangalore Port - Improvements - Survey Work - Special staff - Continued.

Public Works Department

G.O.Ms.No.4782 Dated 28th December 1953
Read the following:

G.O.Ms.No.2360 Public Works dated 1-6-1953
From the Chief Engineer (Public Works (General & Buildings) letter No.1880 B2/51-41, dated 17th November 1953

O R D E R:

Sanction is accorded to the continuance till the 28th February 1954 of the following staff last continued in G.O.No.2360, Public Works dated 1st June 1953 for attending to the work connected with improvements to the Port of Mangalore in South Kanara Division, Coimbatore Circle, Public Works Department:

One Assistant Engineer
Four Supervisors
One Upper Division Clerk
One Lower Division Clerk
Two Peons.

(By Order of the Governor)

T.V.Mateen Maidlier,
Addl. Deputy Secretary to Government

To the Chief Engineer, P.W.D. (General & Buildings)
To the Accountant-General, through Finance Department
To the State Port Officer
To the Examiner of Local Fund Accounts
Duplicate copy to Sri A.Alakrishnan, Accountant-General, Madras
Copy to 'P' Section

True Copy / Forwarded / By Order

Superintendent

lvn/-30.12

PWD (Pt)

28/27.1.

15/ PWD (Fi)

Memo. No. 72975F/53-2 of 25-1-54
Pub - Mangalore - Improvements - Model experiments at Poona and collection of data thereof at Mangalore.

From the SPO endt No. 428SD/53-5 of 12.12.53.

The S.P.O. is requested to expedite his further report.

DM 25/1/54

25.1.54

To the SPO

URGENT

72975/53

No.428 SD/53-6

State Port Office,
P.B.No.13, Madras-1.
29-1-1954

1-FEB 1954

8024 From the State Port Officer, Madras.

*Copy forwarded to the Executive Engineer, P.W.D., South Kanara division, Mangalore. The report on the stage of progress on the investigation work sent to this office with your letter No.3134 H dated 25-11-53 was forwarded to Government with this office Endt.No.428 SD/53-5 dated 12-12-53 which is referred to in the above Government Memo. The further report now called for by Government may please be furnished as early as possible.

State Port Officer.

*Government Memo No.72975 F.53-2, P.W., dated 25-1-1954.

Copy forwarded to the Secretary to Government, P.W.D., Madras for information. The report will be submitted to Government on receipt from the Executive Engineer, South Kanara division. It is presumed Government require a further report on the progress of work.

PWD(P.)

A.R. Nil ~~25-2-1~~ 3.3.54.

3/2/54 1/2 3.2.54.

4.2.54

19 PNDIFD

Memo. no. 72975F/53. 3 of 8-3-54.

Post-navigation-Improvements-Model experiments at Poona and collection of data thereof at Navigation.

P17 cf. From the S.P.O. Endt. no. 428SD/53.6. of 28.1.54.

The S.P.O. is requested to expedite his further report.

2/8.3.54

2/10/3

dd 8/11/3

To the S.P.O.

DNS 7/8/54 8.3.54

URGENT

12975/53 21

From:
L.H. Cornish Esq.,
State Port Officer,
P.B.No. 13,
Madras-1.

To:
The Secretary to Government,
Public Works Department,
Madras.

6 APR 1954
PUBLIC WORKS DEPARTMENT

No.428 SD/53-11 dated 2nd April 1954

28358 Ports - Mangalore - Improvements - Model experiments - at Poona and collection of data therefor at Mangalore Government Memo No.72975 W/53-3 P.W. dated 8-3-54.

I forward herewith a copy of letter No.3593/53-9 dated 29-3-54 received from the Port Officer, Mangalore, furnishing a report on the present stage of progress in the collection of data at Mangalore Port.

Yours faithfully,

State Port Officer.

Copy of letter No.3593/53-9 dated 29-3-54 from the Port Officer Mangalore to the State Port Officer, Madras.

Ports - Mangalore - Improvements - Model experiments at Poona and collection of data therefor at Mangalore Progress of work reported - Your Memo No.428 SD/53-7 dated 23-3-54.

The present stage of progress in the collection of data for Mangalore Port Model experiment is furnished below.-

I. Work completed and data furnished to the Director, Central Water Power Research Station Poona since the last report of progress furnished by the Executive Engineer, South Kanara Division in his No.3154 M dated 25-11-1953.

1. Levels of sea coast at Someshwar: Levels of sea coast at Someshwar were taken after 1953 monsoon plotted and superimposed with the levels taken before monsoon and sent to the Director.

PWD(F1)

2. Water samples were taken in fair weather at the gut at Sultan Battery in Gurpur river and near Railway bridge in Netravati river and the silt was dried and sent to the Director with all particulars.

Filed. Further report may be awaited. 10.6.54.

3. Soundings were taken at the gut and bar in November 1953 plotted and sent to the Director. The observations were repeated in 2/54 and 3/54 as per further instructions given by the Director to take soundings every month.

DWS 1/4/54 14.4.54 12.4.54

4. Positions of north and south sandspits were measured when soundings were taken at the gut and sent to the director.

5. Automatic tide gauge records and other Meteorological particulars upto the end of February were sent to the director in a complete shape.

6. As per the proposals by the Director to shift the tide house to the marine yard, plans and estimate for a permanent masonry tide house were prepared and submitted to the State Port Officer for taking further action. The concurrence of the Director Geodetic and Training Circle, Dehra Dun to this effect has also been obtained in his letter No.5368-T. 42 E, dated 18-9-1953.

7. Cross section of Netravati river and Gurpur where dredging is done, were taken before and after dredging in 1953, plotted and is being despatched to the Director by the Executive Engineer, South Kanara Division.

8. Sounding charts of the mut and bar by the port authorities at Mangalore for the past 5 years were sent to the director.

II. Further data required by the Director and to be collected:-

1. One set of silt water samples to be taken at the mut during fair weather and monsoon season.

2. Soundings at the bar and gut to be continued every month.

3. Position of North and South sandspit to be measured every month.

4. Some more float observations to be done during fair weather and monsoon season.

5. The discharges at Panemangalaore Bridge in Netravati river and at Gurpur bridge in the Gurpur river that are required to nullify the one tidal inflow into the rivers during monsoon season.

6. Orders are awaited from the Director, Central Water Power and Research Station, Poona regarding the wave characteristics to be observed and the erection of a sea gauge therefor.

General: The Director in his letter No.179/1277 dated 17-2-1954 has written to send the liaison officer immediately as sufficient progress has been made in the Model. Orders are awaited from the Government for this.

(True Copy)

State Port Officer

AT/4.

27 / PND(F.)

S/146 - Memo no. 72975-F/53-Lk 9 12-6-54

Poona-Nanganure - Improvements - Model experiments at Poona and collection of data thereof at Nanganure.

pp 21 to 22 c/f - From the S.P.O. Letter no. 428 SD/53-11 dt 9.4.54.

The S.P.O. is requested to expedite his further report.

12/6/54

To the S.P.O.

DW 12/6/54 Sub A.M. 12.6.54

M 12.6.54

22 JUN 1954
PUBLIC WORKS DEPARTMENT

25

From
J.H. Cornish, Esq.,
State Port Officer,
P.B.No.13,
Madras 1.

To:
The Secretary to Government,
Public Works Department,
Madras.

49288

No.235 SD/54-2, dated 18-6-1954.

Sir,

Sub:- Ports - Mangalore - Improvements - Model experiments at Poona and collection of data therefor at Mangalore

Ref:- Government Memo No.72975 F/53-4, P.W., dated 12-6-54.

With reference to the Government Memo cited, I have to state, that no further report appears to be due to Government from me. However a progress report of work done from 1-3-1954 to 15-5-54 and work remaining to be done in the collection of data for Model experiments at Mangalore port received with endt. No.1063/54-1, date 16-5-54 of the Port Officer, Mangalore is enclosed.

Yours faithfully,

State Port Officer.

Encl. One.

P.18.

PWD (F.)

The report on pp 27-28 supra may be perused and the file closed.

M
25.6.54

memo 72975 F/53-5 dated
Recorded.

27

Subject:- Progress of Work for collection of data for Mangalore Port - Model experiment from 1-3-1954 to this date - submitted.

I. Work completed and data furnished to the Director, Central Water and Power Research Station, Poona since 1-3-1954 to this date:-

(1) Direction of surface current observation for fair weather:-

(a) Netravati river:-

i. Spring tide flood)
ii. Neap tide flood)
---) Data sent to the Directo
(b) Gut:-)
)
i. Spring tide flood)
ii. Neap tide ebb)

(2) Soundings in the sea at the bar and gut:

Date for 3/54 and 4/54 were sent to the director.

(3) Position of North and South Sand-spits

Measurements were made in 3/54 and 4/54 and data sent to the director.

(4) Silt water samples for fair weather:-

(a) Netravati river - samples were collected for both 'flood' and 'Ebb' flow in spring tide and samples are being directed.

(b) Gurpur river - asabove.

(5) Sounding charts of the gut and bar for the past 5 years sent to the Director in original for reference and return.

(6) Cross Sections at Someshwar sea coast:-

Cross sections were taken and is being plotted.

(7) Automatic tide gauge: Tide gauge records and Meteorological data for 3/54 were sent to the Director.

(8) Construction of new tide house: Ring bund has been formed and water is being pumped out and the excavation for the foundation is completed upto 12 feet depth.

II. Data yet to be collected:

Fair weather:-

(1) Direction of surface current in Gurpur river:-

i. Spring tide flood.
ii. Neap tide flood.

(2) Silt water samples at the gut.

(3) Data of the levels of the rock out crop

(4) Automatic tide gauge:- data to be sent from 4/54 inwards.

(5) Areal photograph of the sea portion.

(6) Construction of the tide house and shifting automatic gauge.

Monsoon

Monsoon season:-

(1) Direction of surface current in 'Gurpur' and 'Netravati' rivers for spring tide and neap tide 'flood'.

(2) One set of silt water samples at the gut.

(3) Gauges at Panemangalore and Gurpur bridge to be observed when there is continuous ebb flow at the gut.

(4) Automatic tide gauge readings to be continued,

Submitted to the Port Officer, Mangalore.

A.P. Joseph,
Junior Engineer,
15-5-54.

No.1063/54-1.

Copy submitted to the State Port Officer, Madras for information.

L.G. Hardas,
Port Officer.

Port Office, Mangalore I.
P.B.No.146,
Dated 17th May 1954.

(True copy)

N. Ramamurthy
Superintendent.

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